

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.

Application Serial Number: 10/089,392A  
Source: IFW16  
Date Processed by STIC: 11/15/04

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/089,392A

DATE: 11/15/2004

TIME: 13:53:32

Input Set : A:\00229806.txt

Output Set: N:\CRF4\11152004\J089392A.raw

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3 <110> APPLICANT: DECKWER, WOLF-DIETER
4     MUELLER, ROLF-JOACHIM
5     KLEEGERG, ILONA
6     VAN DEN HEUVEL, JOOP
8 <120> TITLE OF INVENTION: ESTER-GROUP-CLEAVING ENZYME FROM THERMOMONOSPORA FUSCA
10 <130> FILE REFERENCE: 930008-2069
12 <140> CURRENT APPLICATION NUMBER: 10/089,392A
13 <141> CURRENT FILING DATE: 2002-07-10
15 <150> PRIOR APPLICATION NUMBER: PCT/EP00/07115
16 <151> PRIOR FILING DATE: 2000-07-25
18 <160> NUMBER OF SEQ ID NOS: 3
20 <170> SOFTWARE: PatentIn Ver. 3.2
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 261
24 <212> TYPE: PRT
25 <213> ORGANISM: Thermomonospora fusca
27 <400> SEQUENCE: 1
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31 Ala Ser Ser Gly Pro Phe Ser Val Ser Glu Glu Asn Val Ser Arg Leu
32           20           25           30
34 Ser Ala Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Arg Glu Asn
35           35           40           45
37 Asn Thr Tyr Gly Ala Val Ala Ile Ser Pro Gly Tyr Thr Gly Thr Glu
38           50           55           60
40 Ala Ser Ile Ala Trp Leu Gly Glu Arg Ile Ala Ser His Gly Phe Val
41  65           70           75           80
43 Val Ile Thr Ile Asp Thr Ile Thr Thr Leu Asp Gln Pro Asp Ser Arg
44           85           90           95
46 Ala Glu Gln Leu Asn Ala Ala Leu Asn His Met Ile Asn Arg Ala Ser
47           100          105          110
49 Ser Thr Val Arg Ser Arg Ile Asp Ser Ser Arg Leu Ala Val Met Gly
50           115          120          125
52 His Ser Met Gly Gly Gly Gly Thr Leu Arg Leu Ala Ser Gln Arg Pro
53           130          135          140
55 Asp Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp His Leu Asn Lys Asn
56 145           150          155          160
58 Trp Ser Ser Val Thr Val Pro Thr Leu Ile Ile Gly Ala Asp Leu Asp
59           165          170          175
61 Thr Ile Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Asn Ser Leu
62           180          185          190
64 Pro Ser Ser Ile Ser Lys Ala Tyr Leu Glu Leu Asp Gly Ala Thr His
65           195          200          205

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67 Phe Ala Pro Asn Ile Pro Asn Lys Ile Ile Gly Lys Tyr Ser Val Ala
68      210                215                220
70 Trp Leu Lys Arg Phe Val Asp Asn Asp Thr Arg Tyr Thr Gln Phe Leu
71 225                230                235                240
73 Cys Pro Gly Pro Arg Asp Gly Leu Phe Gly Glu Val Glu Glu Tyr Arg
74      245                250                255
76 Ser Thr Cys Pro Phe
77      260
80 <210> SEQ ID NO: 2
81 <211> LENGTH: 261
82 <212> TYPE: PRT
83 <213> ORGANISM: Streptomyces albus
85 <400> SEQUENCE: 2
87 Asp Asn Pro Tyr Glu Arg Gly Pro Ala Pro Thr Arg Ala Ser Ile Glu
88 1      5      10      15
90 Ala Pro Arg Gly Pro Tyr Ala Val Ser Gln Thr Ser Val Ser Ser Leu
91      20      25      30
93 Val Val Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr
94      35      40      45
96 Gly Asp Gly Thr Phe Gly Ala Val Val Val Thr Pro Gly Phe Thr Ala
97      50      55      60
99 Thr Glu Ser Ser Met Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly
100 65      70      75      80
102 Phe Val Val Phe Thr Ile Asp Thr Leu Thr Thr Leu Asp Gln Pro Asp
103      85      90      95
105 Ser Arg Gly Arg Gln Met Leu Ala Ala Leu Asp Tyr Leu Thr Glu Arg
106      100     105     110
108 Ser Ser Ala Arg Thr Arg Ile Asp Gly Thr Arg Leu Gly Val Ile Gly
109      115     120     125
111 His Ser Met Gly Gly Gly Gly Thr Leu Glu Ala Ala Lys Ser Arg Pro
112      130     135     140
114 Ser Leu Lys Ala Ala Ile Pro Leu Thr Pro Trp Asn Leu Asp Lys Thr
115 145     150     155     160
117 Trp Pro Glu Val Thr Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp
118      165     170     175
120 Thr Val Ala Pro Val Ala Thr His Ala Lys Pro Phe Tyr Ser Ser Leu
121      180     185     190
123 Pro Ser Ser Thr Asp Arg Ala Tyr Leu Glu Leu Asn Asn Ala Thr His
124      195     200     205
126 Phe Ala Pro Asn Leu Ser Asn Thr Thr Ile Ala Lys Tyr Ser Val Ser
127      210     215     220
129 Trp Leu Lys Arg Phe Ile Asp Asp Asp Thr Arg Tyr Glu Gln Phe Leu
130 225     230     235     240
132 Cys Pro Leu Pro Val Pro Asp Arg Asp Ile Glu Glu Tyr Arg Gly Thr
133      245     250     255
135 Cys Pro Leu Gly Gly
136      260
139 <210> SEQ ID NO: 3
140 <211> LENGTH: 261

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141 <212> TYPE: PRT
142 <213> ORGANISM: Streptomyces sp. M11
144 <400> SEQUENCE: 3
146 Ala Asn Pro Tyr Glu Arg Gly Pro Ala Pro Thr Asn Ala Ser Ile Glu
147 1 5 10 15
149 Ala Ser Arg Gly Pro Tyr Ala Thr Ser Gln Thr Ser Val Ser Ser Leu
150 20 25 30
152 Val Ala Ser Gly Phe Gly Gly Gly Thr Ile Tyr Tyr Pro Thr Ser Thr
153 35 40 45
155 Ala Asp Gly Thr Phe Gly Ala Val Val Ile Ser Pro Gly Phe Thr Ala
156 50 55 60
158 Tyr Gln Ser Ser Ile Ala Trp Leu Gly Pro Arg Leu Ala Ser Gln Gly
159 65 70 75 80
161 Phe Val Val Phe Thr Ile Asp Thr Asn Thr Thr Leu Asp Gln Pro Asp
162 85 90 95
164 Ser Arg Gly Arg Gln Leu Leu Ser Ala Leu Asp Tyr Leu Thr Gln Arg
165 100 105 110
167 Ser Ser Val Arg Thr Arg Val Asp Ala Thr Arg Leu Gly Val Met Gly
168 115 120 125
170 His Ser Met Gly Gly Gly Gly Ser Leu Glu Ala Ala Lys Ser Arg Thr
171 130 135 140
173 Ser Leu Lys Ala Ala Ile Pro Leu Thr Gly Trp Asn Thr Asp Lys Thr
174 145 150 155 160
176 Trp Pro Glu Leu Arg Thr Pro Thr Leu Val Val Gly Ala Asp Gly Asp
177 165 170 175
179 Thr Val Ala Pro Val Ala Thr His Ser Lys Pro Phe Tyr Glu Ser Leu
180 180 185 190
182 Pro Gly Ser Leu Asp Lys Ala Tyr Leu Glu Leu Arg Gly Ala Ser His
183 195 200 205
185 Phe Thr Pro Asn Thr Ser Asp Thr Thr Ile Ala Lys Tyr Ser Ile Ser
186 210 215 220
188 Trp Leu Lys Arg Phe Ile Asp Ser Asp Thr Arg Tyr Glu Gln Phe Leu
189 225 230 235 240
191 Cys Pro Ile Pro Arg Pro Ser Leu Thr Ile Ala Glu Tyr Arg Gly Thr
192 245 250 255
194 Cys Pro His Thr Ser
195 260

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/089,392A

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